Environmental Education 6th and 7th work packet for the weeks of 4/13-17 and 4/20-24

The packet you have provides you with 2 weeks worth of observation sheets. The first week is simply to record the birds you see within a specific area and only in that area.

The second week you may either keep with that area but change/add a habitat need such as fresh water or a feeder (ideas about feeders can be found below). Please, don't feed bread to birds. Or you may use a different area altogether such as a metro park or different area of your yard (If you used the backyard now use the front).

https://wilderchild.com/decorating-outdoor-edible-tree-for-the-animals/

Other helpful resources:

https://www.birdwatchersdigest.com/bwdsite/connect/youngbirders/how-to-identify-birds

All observations can be recorded online at: celebrateurbanbirds.org

<u>Special activities for April 22nd. The 50th anniversary of Earth Day</u> is this year. With such an important milestone please make sure to share with me on the dojo!!

There is a small reading of *Living With the Wind*, that I would like you to read with a family member and then find something to plant in the wind...

Miss you all!!

Mantel

Celebrate Urban Birds

Let's get started!



Learn to identify the 16 focal species. Use the enclosed bird-ID guide and silhouette posters. If you want to obtain a regional list of focal species, visit celebrateurbanbirds.org/regional

Pick a place to watch birds and stick to it! Your bird-watching area should be 50 feet by 50 feet—about the size of half a basketball court. Find and remember the visual boundaries of your area. Don't change your bird-watching area.



Spend just 10 minutes observing birds.

✓ Tell us if you see—or don't see—any of the focal species.

✓ If you can't confidently identify a species, select "Unsure."

✓ Zero means a lot! Send us your information even if you see no birds.

✓ Only report birds inside your bird-watching area.

✓ Mornings are best.

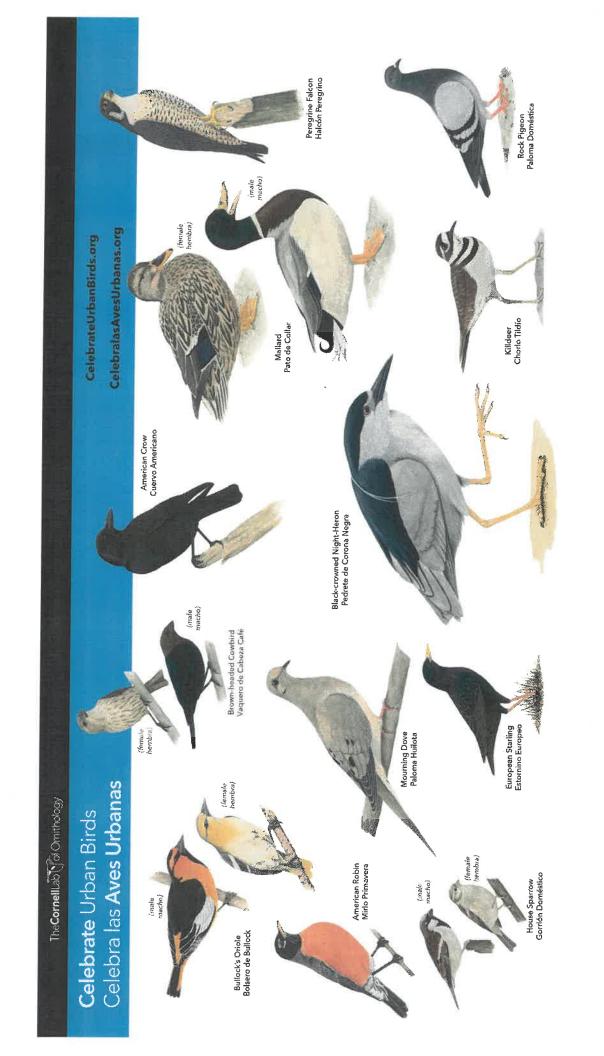
Repeat your observation three times

in the same bird-watching area anytime within a month.

Send your data. Citizen science happens when everyone shares their observations.







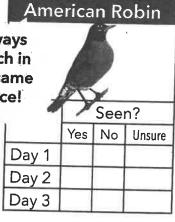
How do urban birds use green spaces?

Help us find out. It's easy, fun, and quick!

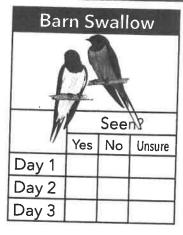
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Your			Date ((MM/DD/YY)	Day	Da	y <u>~</u>	Day	<u> </u>
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Focal Species Tally Sheet

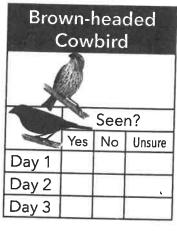




























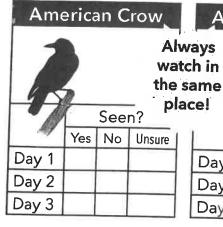


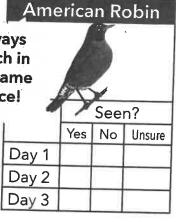
How do urban birds use green spaces?

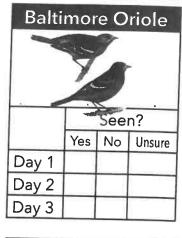
Help us find out. It's easy, fun, and quick!

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Focal Species Tally Sheet





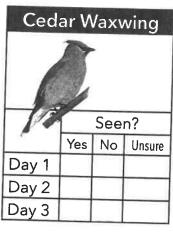












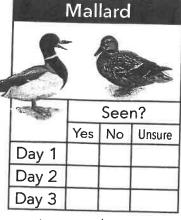


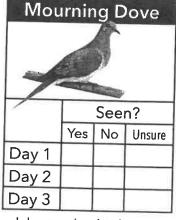


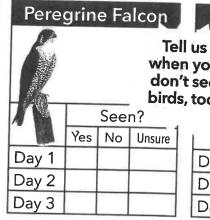


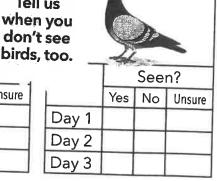
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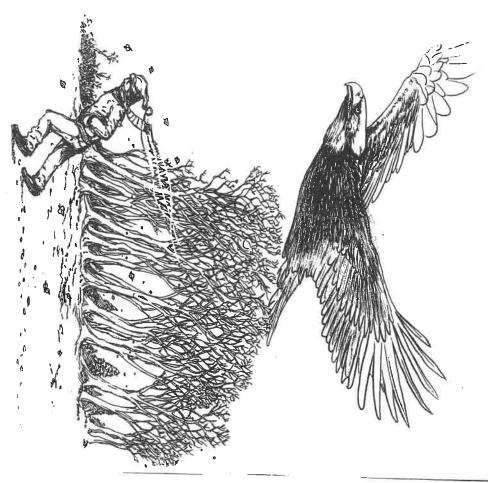
Rock Pigeon











Living With the Wind

Too much wind? Very bad. No wind at all . . . Ву Веску Кирр

Good timber does not grow with ease; the stronger the wind, the stronger the trees. —J. Willard Marriott

> we put the vegetable garden on the sheltered side of the barn. Champlain/As long as you stay on the shore." Wind is the reason the lawn furniture over. Wind is the reason for that dismal French Canadian sea shanty that ends, "You'll never get drowned on Lake the lake into whitecaps, rips the laundry off the line, and knocks Champlain, we get a lot of wind. In the Summer, it whips ere where we live, on the Vermont side of northern Lake

solid, and buries the bird feeders. a blue whale just off the back porch, freezes everything freezable Pole across the plains of Canada, makes a snow drift the size of In the Winter, the wind comes straight down from the North

Our wind is serious wind.

the wind whips frozen methane across the strongest winds in the solar system are found on Neptune. There It could, of course, be a lot meaner wind. I just read that the

even in February, is a beach on Tahiti per hour, and temperatures hover around planet's surface at speeds up to 1200 miles -392 degrees. Compared to Neptune, Vermont,

We need the wind, even though I'd

we can't do without the wind. And, for all my carping about frostbite,

up with the wind that keeps blowing his canoe hero Gluscabi, bent on duck-hunting, is fed There's an Abenaki legend in which the

away from my tomato cages. like to keep it

chastened Gluscabi learns the error of his ways. sides, and stuffs him into a crack in the mountainside. With the the air is hot and stuffy, the water is dirty and stagnant, and a Wind Eagle out of commission, there's no more wind—but soon backwards. Annoyed, he tracks down the great Wind Eagle—whose flapping wings generate the world's winds—ties his wings to his

doses of it. And the wind may be even more important for trees. our tomato cages, some of which are funny-shaped due to large We need the wind, even though I'd like to keep it away from

was initiated as a science experiment in the 1990s, the brainchild Star Trek-is located in the desert outside Tucson, Arizona. It glass-and-metal greenhouse that looks like something out of Which brings me to Biosphere 2. Biosphere 2-a three-acre,

people to live on Mars. of structure, Bass and Allen hoped, that would eventually allow a replica in miniature of the Earth (Biosphere 1). It was the kind tended to be an enclosed self-sustaining environmental system, of philanthropist Ed Bass and ecologist John Allen, and was in-

and they toppled woody backbone. tall, too fast, and Gravity caught 2 trees grew too up with them The Biosphere had too little

> provided their table salt.) Biospherians with coffee beans; the ocean with coral reef. (The rainforest supplied the desert, and a 150-foot-long ocean, complete terfall, a grassy savannah, a marshland, a different mini-biomes, among them a tiny tropical rainforest with its own 25-foot wa-3,000 plant and animal species, and seven eight Biospherians (four men, four women), In its heyday, Biosphere 2 was home to

uted to its demise, prominent among these melted down. A number of factors contribthan two years before the whole thing The Biosphere 2 experiment lasted less

And the trees started falling down. Essential pollinating insect populations went extinct. Crops failed rians, gasping, said they'd never take oxygen for granted again.) much carbon dioxide into the atmosphere. (The released Biosphesoil bacteria multiplying at breakneck rates and pumping way too

Trees, it turns out, need wind.

ring-shaped molecules—that acts as a tree's equivalent of cement. live-free-or-die-type wood that is particularly heavy in lignin. to dig in its heels and produce reaction wood, a stubbornly rigid, Lignin is an organic polymer—chemically a nightmarish snarl of and occasional downright battering—by wind creates stress in the load-bearing structure of trees. That stress in turn causes a tree of Biosphere 1—wind, the ultimate personal trainer, relentlessly keeps them moving. The continual mechanical push and shove— When trees grow in the wild—that is, in the great outdoors

obstinate and it's tough. It's what wind gets if it messes with trees. Reaction wood is a tree's way of drawing a line in the sand. It's Reaction wood is how trees respond to aerodynamic bullying.

> Gravity caught up with them and they toppled over. trees grew too tall, too fast, and had too little woody backbone. parent, never gave them the opportunity to test their mettle. The ing shook them up. Biosphere 2, like an over-protective helicopter reaction wood. They had no challenges, suffered no stress. Noth-The Biosphere 2 trees, deprived of wind, never developed

Wind Eagle, there's a lesson for us here, too. I feel bad for those trees. Somebody should have intervened. On the other hand, like Gluscabi's disastrous goof with the

Olympics back in 2012. which has been topping the global stress charts since they lost the just 35% on average worldwide. We're now as stressed as Greece, claim to experience stress for much of their day, as opposed to According to the latest Gallup poll, about 55% of American adults Stress in the United States these days is at an all-time high

tions, work performance, and (well, me) the speed at which our Collectively we worry about money, health, family obliga-

ably—about the future. undone. We worry—justifi over all the things we've left children drive. We agonize

we should give up. But that doesn't mean

the right way—isn't always Stress-dealt with in

inspires us to fight for what motivates us to succeed. It the impetus to do better. It Sometimes it gives us

gives us resilience and backbone. we think is right. It teaches us to deal with difficult situations. It

favors, either. Too much wind blows a tree over. But no wind does it no

Same with us.

Stress isn't all bad.

Sometimes it makes us tougher. &

